

# **MODIS TECHNICAL TEAM MEETING**

**June 13, 1996**

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were Harry Montgomery, Dick Weber, David Herring, Dorothy Hall, Chris Justice, Ed Masuoka, Bruce Guenther, Locke Stuart, Yoram Kaufman, Bob Murphy, and Steve Ungar.

## **1.0 SCHEDULE OF EVENTS**

July 9 - 10	EOS Calibration Panel at GSFC
July 11 - 12	MODLAND-SDST Meeting at GSFC
July 15	Semi-Annual Reports due to Barbara Conboy
July 17 - 18	Atmosphere Discipline Group Meeting in Chincoteague, VA
Aug. 16	Revised ATBDs due to the EOS Project Science Office
Oct. 8	MODIS Calibration Working Group at GSFC
Oct. 9 - 11	MODIS Science Team Meeting at GSFC

## **2.0 MINUTES OF THE MEETING**

Salomonson began the meeting with the presentation of a NASA 20-Year Service Award to Bob Murphy. Salomonson congratulated Murphy and thanked him for his outstanding service to NASA.

### **2.1 MODIS Project Reports**

Weber reported that there was a Quarterly Management Review at SBRS yesterday that went well. He said the biggest problem facing SBRS remains the building and testing schedule, and electronics—SBRS is still awaiting shipment of the SRCA fold mirror. The current estimated date of delivery of the MODIS Protoflight Model (PFM) has slipped to mid-February 1997. However, Weber pointed out that Chris Scolese, EOS AM project manager, wants SBRS to deliver the PFM by the end of 1996.

#### **2.1.1 Pointing Accuracy Tests**

Salomonson asked Weber for an update on actions taken regarding the SBRS pointing accuracy tests. Weber submitted a formal written request from SBRS asking for a deviation to permit knowledge and accuracy of pointing accuracy to be within 300 arc seconds, rather than 90 arc seconds for the PFM only. Weber emphasized that this letter is applicable only to the PFM.

Justice proffered that he would still like for SBRS to conduct the pointing accuracy tests as originally planned. Weber responded that the tests would further delay delivery. Justice stated that he would like to have knowledge of

MODIS pointing accuracy at launch. Justice specified that he would like to know the pointing accuracy relative to the position of the platform and the instrument. Weber countered that the deviation will provide initial post-launch knowledge of pointing accuracy to between 1 and 1.5 km. Justice said that the spec for the launch effects on pointing knowledge are small relative to the deviation requested and that at this time we have no firm plan for post-launch determination; no resource allocation has been made and this is just another activity which SDST will have to embrace.

## **2.2 MODIS Team Leader Computing Facility (TLCF)**

Salomonson raised concerns about recent e-mails from Jan-Peter Muller and his desire to use MODIS TLCF resources for large-volume AVHRR data processing associated with a proposal to the European Union. Salomonson stated that the MODIS TLCF has more to do now than it can confidently accomplish and he, therefore, doesn't see room for additional processing of the order described in Muller's e-mail. Salomonson has asked NASA HQ to assess the United Kingdom's current position concerning their funding of Muller's participation on the MODIS Team. It seems clearly unfortunate that the United Kingdom has not seen fit to provide the appropriate support for Muller in that he has much to offer the MODIS Team. However, the non-support provided by the United Kingdom, at best, has greatly hampered his involvement. Travel support is at least needed.

## **2.3 MCST Reports**

Guenther announced that MCST now has internal copies of the MODIS Calibration Plan, which includes discussion of all activities leading to the Level 1 product, as well as a geolocation plan. Additionally, MCST is now conducting an internal review of its Quality Assurance Plan. He hopes to complete the MCST internal review of those documents and distribute them to the Science Team by the end of June.

## **2.4 SDST Reports**

Masuoka reported that the processing requirement for MODIS products went up 900 Mflops to a total of 6.4 Gflops. The increase is due to growth in the Atmosphere Group's processing requirements as a result of its Level 3 products being defined. Masuoka noted, however, that there was a significant decrease in the at-launch processing requirements of the Level 1b product.

Justice asked if Masuoka's processing requirement estimates take into consideration the at-launch products from new team members. Masuoka responded negatively. Justice asked if the estimates include post-launch products planned for 6 to 9 months after launch. Again, Masuoka replied "no". However, Masuoka pointed out that ECS has planned for a 2x boost in processing resources 1 year after launch. Al Fleig is developing a strawman reprocessing plan that will be sent around to Science Team members for review later this year.

## **2.5 BOREAS Update**

Ungar reported that the MODIS Airborne Simulator (MAS) will be included in the upcoming BOREAS campaign; and that MODLAND plans to participate fully in the campaign.

## **2.6 MODLAND Reports**

Justice announced that there will be MODLAND-SDST Meeting at GSFC on July 11 - 12, in Building 22, rooms 233 and 365, respectively. The main purposes of the meeting will be to review the version 1 code delivery status and discuss any issues; discuss the synthetic data set; and develop the Quality Assurance Plan.

Justice reported that he attended the NOAA POESS (Polar Orbiting Environmental Satellite Systems) meeting and gave a presentation of the MODIS fire algorithm.

Justice stated that MODLAND would like to get test results from SBRs as soon as possible and asked if Weber if he has a schedule of release dates for those data. He said that if MODLAND knew when the data are to be released, then it could plan its analyses and respond in a more efficient manner. Justice is primarily interested in those instrument characteristics that relate to science, such as registration and saturation. Guenther responded that MCST will be the conduit through which SBRs test data will be distributed to the Science Team. Guenther said that SBRs still is developing its test schedule and that MCST will distribute the schedule when it begins to stabilize.

## **2.7 Atmosphere Group Reports**

Kaufman announced that the Atmosphere Group will hold its first group meeting July 17 - 18 at Wallops Flight Facility. The TARFOX experiments will be ongoing then and the Atmosphere Group will already be there participating in that campaign. The meeting will focus on the remote sensing of aerosols over deep ocean regions.

## **2.8 MAST Reports**

Stuart announced that the EOS Science Project office took a recent \$14 million cut due to carryover problems. Luckily, he said, the MODIS Team was not significantly affected. He noted, however, that some \$15K of MODIS FY95 money is still shown as Undisbursed. He recommended that action be taken by the responsible Science Team members to resolve this situation as soon as possible. Stuart added that, in general, all government team members are showing large carryover problems.

## **3.0 ACTION ITEMS**

1. *Guenther*: Forward copies of the SBRS test schedule to the Science Team as soon as it stabilizes.